Efficacy Trials - Injection Method

Common Horsetail, *Equisetum arvense*

Submitted: **Clark County Weed Management**
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Focus: Efficacy Results of Injection Method used on Common Horsetail
Process: Injection Method
Date(s): 06/01/05
Location(s): 1 Test plot within Clark County

Method of Control:

Stems were injected in hollow segment near to the ground, with 0.2 mL of RoundUp Pro Concentrate at full strength:

Treatment Notes:

24 sterile stems were injected within a 9 square foot horsetail patch. The treated stems were marked and photographed to aide follow-up observation and to determine if herbicide would transfer from treated to untreated stems.
(Equisetum arvense has two distinct stems. One is green, branched, sterile, and long-lasting. These sterile stems were injected. The other is pale unbranched, fertile, and short-lived.)

Control Results:

Herbicide Amount	Results
0.2 mL	The two-week follow-up showed all treated stems brown and withered. There was no effect on untreated stems. The 100 day follow-up showed no change; injected stems remained brown, with no regrowth.

Non-target Effect:

None

Conclusion/Recommendations

It appears that injection of horsetail stems may provide good control when injecting each stem. This application would be appropriate for flower gardens or native plantings where desirable plants are dense and low-growing.

Efficacy Trial Results On Common Horsetail

Site name	Horsetail Trial #1
Address	NE 72nd Ave, Vancouver, Near power pole & cyclone fence.
Plot #	#1
Reference #	
Treatment Date	June 1, 2005
Treatment Method:	
Treatment Method	Injection (into hollow segment, near ground)
Herbicide	RPC
Injection Dosage	0.2 mL @ 100% (need the viscosity of the concentrate)
Treatment Area:	
Area Treated	9 square feet
Total number of plants in area (rhizomic connection?)	100+
Number of plants/stems actually treated	24
Plant Phenology:	
Plant phenology	Application is made to the green sterile stem.
Typical plant height	10" to 24"
Typical plant stem diameter	5/16"
Follow-up & Observations:	
Follow-up Date	June 15, 2005
Observations:	All injected stems brown and withered. Untreated stems remain green, no damage.
Follow-up Date	September 12, 2005
Observations:	No new growth from treated stems Untreated stems green
Control percentage:	
Of plants/stems treated Number controlled	24
Control percentage	100%
Number Plants Controlled:	
Total # of plants controlled (rhizomic connection?)	
Notes:	